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[CUI Inc.](#)

[EPSA050250UB-P5P-EJ](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



date 08/21/2012

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SERIES: 12 W WALL PLUG - UK BLADE | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

- up to 12 W power
- universal input (90~264 Vac)
- single regulated output from 5~12 V
- over voltage, over current, and short circuit protections
- TUV safety approvals
- level V efficiency
- custom designs available



MODEL

	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise ¹ max (mVp-p)	efficiency level
EPSA050250UB	5	2.5	12	50	V
EPSA120100UB	12	1	12	120	V

Notes: 1. At full load, 100 ~ 240 Vac input, 20 MHz bandwidth oscilloscope, each output terminated with 10 μ F aluminum electrolytic and 0.1 μ F ceramic capacitors.

PART NUMBER KEY

EPSA050250UB - XX - EJ - CXX

Base Number
example of 5 Vdc, 2.5 A

DC Plug Type

Factory
Designation

Reserved for Custom
Configurations

INPUT

parameter	conditions/description	min	nom	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current				0.4	A
inrush current	at 115 Vac, full load, cold start			30	

OUTPUT

parameter	conditions/description	min	nom	max	units
line regulation			±5		%
load regulation			±5		%
start-up				2	s
hold-up	at 110 Vac, 50 Hz, 80% max. load	10			ms

PROTECTIONS

parameter	conditions/description	min	nom	max	units
over voltage protection	output shut down				
over current protection				200	%
short circuit protection	output shut down and auto restart				

SAFETY & COMPLIANCE

parameter	conditions/description	min	nom	max	units
isolation voltage	input to output at 10 mA for 2 seconds			3,000	Vac
isolation resistance	input to output at 500 Vdc	10			MΩ
safety approvals	EN 60950-1, CE				
EMI/EMC	EN 55022 Class B, AS/NZS CISPR 22 Class B, EN 61000-3-(2,3), IEC 61000-4-(2,3,4,5,6,8,11)				
leakage current				0.25	mA
RoHS compliant	yes				
MTBF	at full load, 25°C, Telcordia SR-332, Issue 2			300,000	hours

ENVIRONMENTAL

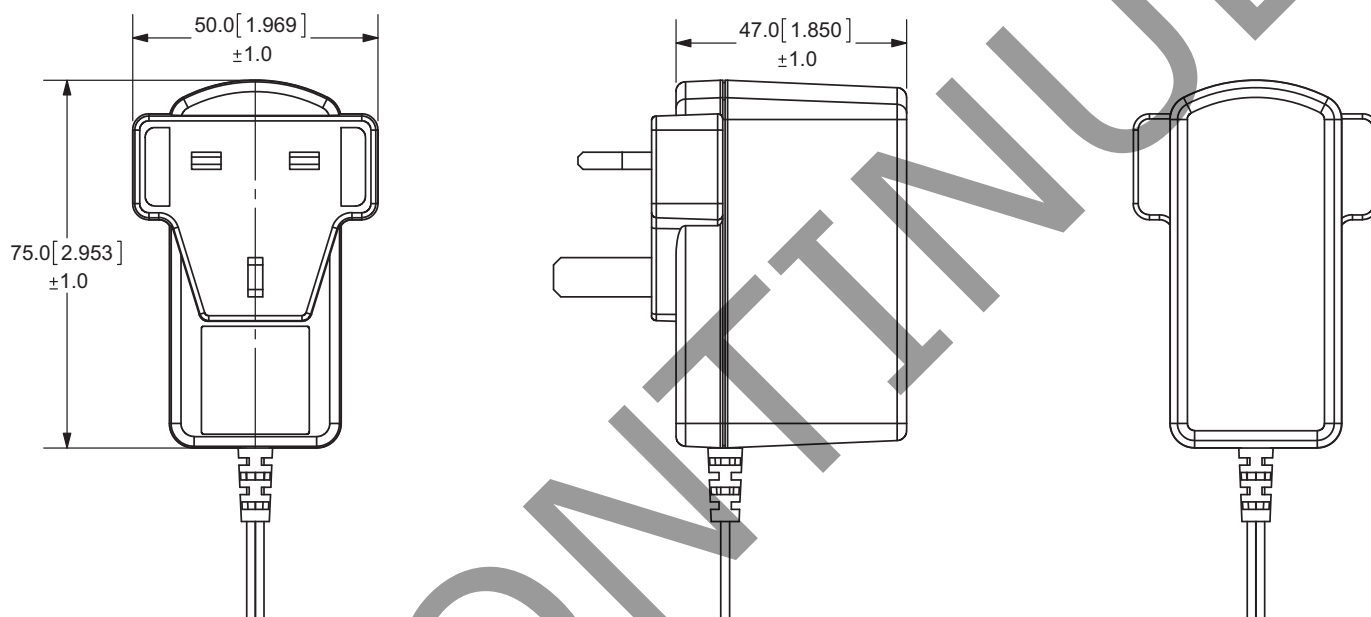
parameter	conditions/description	min	nom	max	units
operating temperature		0		40	°C
storage temperature		-25		85	°C
operating humidity		10		95	%
storage humidity		10		95	%

MECHANICAL

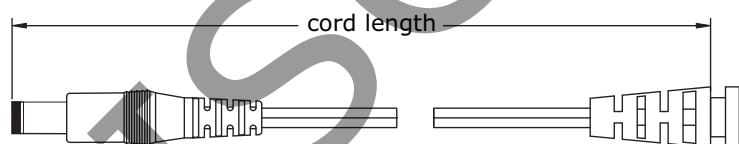
parameter	conditions/description	min	typ	max	units
dimensions	2.953 x 1.969 x 1.850 (75 x 50 x 47 mm)				inch
input plug	fixed UK				

MECHANICAL DRAWING

units: mm[inch]



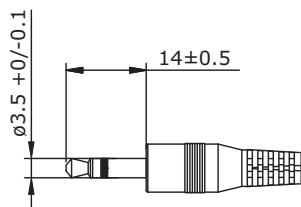
DC CORD



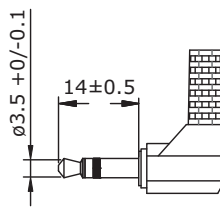
MODEL NO.	CABLE GAUGE	CORD LENGTH
EPSA050250UB	18 AWG	1,500 mm ±30
EPSA120100UB	22 AWG	1,500 mm +50/-30

OUTPUT PLUG OPTIONS

3.5 mm Phono Plug



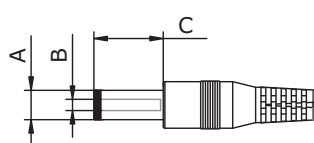
P1



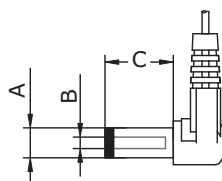
P1R

*Tip positive

Standard DC Plug



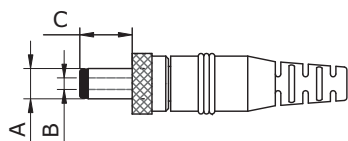
Standard PX



Right Angle PXR

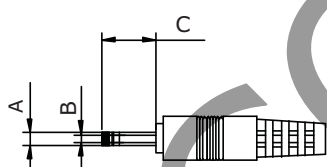
	A	B	C	Unit
P5/P5R	5.5	2.1	9.5	mm
P6/P6R	5.5	2.5	9.5	mm
P7/P7R	3.5	1.35	9.5	mm
P8/P8R	3.8	1.35	9.5	mm
P9/P9R	3.8	1.05	9.5	mm

Locking DC Plug

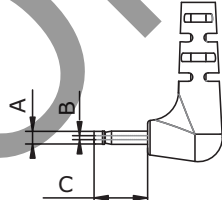


	A	B	C	Unit
P10	5.5	2.1	9.5	mm
P11	5.5	2.5	9.5	mm

EIAJ Plugs

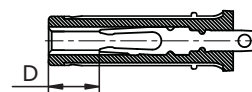


Standard PXX

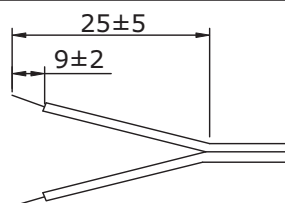


Right Angle PXXR

	EIAJ	A	B	C	D	Unit
P12/P12R	EIAJ-1	2.35	0.7	9.5	NA	mm
P13/P13R	EIAJ-2	4.0	1.7	9.5	5.0	mm
P14/P14R	EIAJ-3	4.75	1.7	9.5	5.0	mm



Stripped and Tinned



DC PLUG TYPE

ST

Stripped and Tinned

PXXX

Plug Type

Plug Angle:
"Blank" = Standard
R = Right Angle

Plug Polarity:
"Blank" = N/A
P = Center Positive

N = Center Negative



*Contact CUI for additional output plug options.

REVISION HISTORY

rev.	description	date
1.0	initial release	03/08/2010
1.01	updated output plug options	11/11/2010
1.02	new template applied	01/24/2012
1.03	V-Infinity branding removed, P7/P7R B dimension updated, safety and EMI/EMC data updated	08/21/2012

The revision history provided is for informational purposes only and is believed to be accurate.



CUI INC®

Headquarters

20050 SW 112th Ave.
Tualatin, OR 97062
800.275.4899

Fax 503.612.2383

cui.com

techsupport@cui.com

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